

FY-2001 PROPOSED SCOPE OF WORK for:
Colorado River Decision Support System (CRDSS)

Project #: 71

Lead Agency: Colorado Water Conservation Board

Submitted by: Ray Alvarado
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Date: April 10, 2000

Category:

☒ Ongoing project
☐ Ongoing-revised project
☐ Requested new start

Expected Funding Source:

☐ Annual funds
☐ Capital funds
☒ Other (cash)

I. Title of Proposal:

Colorado River Decision Support System (CRDSS)

II. Relationship to Recovery Program:

Green River Action Plan: Yampa and Little Snake Rivers (I.B.3.b-c; I.C.3.b-c; I.D.2.b-c)

Green River Action Plan: White River (I.C.2; I.C.3)

Colorado River Action Plan: Mainstem (I.A.4.)

Colorado River Action Plan: Gunnison River (I.B.2.; I.B.3.)

III. Study Background/Rationale and Hypotheses:

The CRDSS is intended to support better decision making with respect to the utilization of Colorado River water resources. The CRDSS provides computer databases and tools to make informed and timely decisions regarding the use and operation of Colorado's water resources in the Upper Colorado River Basin. The CRDSS operates in accordance with existing compacts and state laws governing the administration of water and water rights. The CRDSS allows planning for the optimal use and development of Colorado's water resources to occur.

In relation to the Recovery Program, CRDSS is being used to evaluate the physical and legal water availability at different locations along a stream and to determine the amount of water available for instream flow appropriations. It can also provide information to help determine the impacts of endangered fish flows on Colorado's ability to develop its full compact apportionment.

IV. Study Goals, Objectives, End Product:

The study goals and objectives of CRDSS are as follows:

A) To support interstate compact analysis, including determination of water availability for further development and the optimization of Colorado's Compact apportionment.

B) To support water resources management within Colorado, including the use of basin-wide models, the evaluation of existing and future instream flow appropriations, and provision of water use data as necessary for RIPRAP.

The End Products and due dates are discussed below.

V. Study Area: State of Colorado, Upper Colorado River Basin.

VI. Study Methods/Approach:

The Study Approach is outlined in the detailed Work Plans for Years 1 through 4. The CWCB cost allocations for the entire CRDSS to date are as follows:

<u>Year</u>	<u>Cost</u>
Year 1 (7/1/94 - 6/30/95)	\$1,670,000
Year 2 (7/1/95 - 6/30/96)	\$1,950,000
Year 3 (7/1/96 - 6/30/97)	\$2,320,000
Year 4 (7/1/97 - 6/30/98)	\$1,880,000
Year 5 (7/1/98 – 6/30/99) maintenance	\$ 207,771
Year 6 (7/1/99 – 6/30/00) maintenance	\$ 207,771
 TOTAL COSTS	 \$8,235,542

A yearly maintenance program has been established to make monies available to each river basin that was part of CRDSS. The annual total of \$207,771 has been allocated to the CRDSS maintenance program for FY 2001.

VII. Task Description and Schedule:

For task descriptions see CRDSS Detailed Work Plans for Years 1 through 4. River basin models for Years 1 through 4 are complete. Maintenance of CRDSS involves provision of expertise in the applications of CRDSS, including software and hardware upgrades and data updates.

VIII. FY- 2001 Work:

- Deliverables/Due Date: See Detailed CRDSS Work Plan¹
- Budget \$ 207,771

FY 2002 Work:

The budget for the CRDSS maintenance program has yet to be determined by the Colorado Legislature. Therefore, the amount and the type of work and schedule for FY 2002 work will be determined following completion of FY 2001 Tasks described above.

¹ Detailed Work Plans are available for review in the CWCB offices by contacting the above phone number.

IX. Budget Summary:

CWCB Cash Contribution

FY - 2001: \$ 207,771

FY - 2002: To be determined by the Colorado Legislature.

X. Reviewer(s): Not applicable.

XI. References: Not applicable.